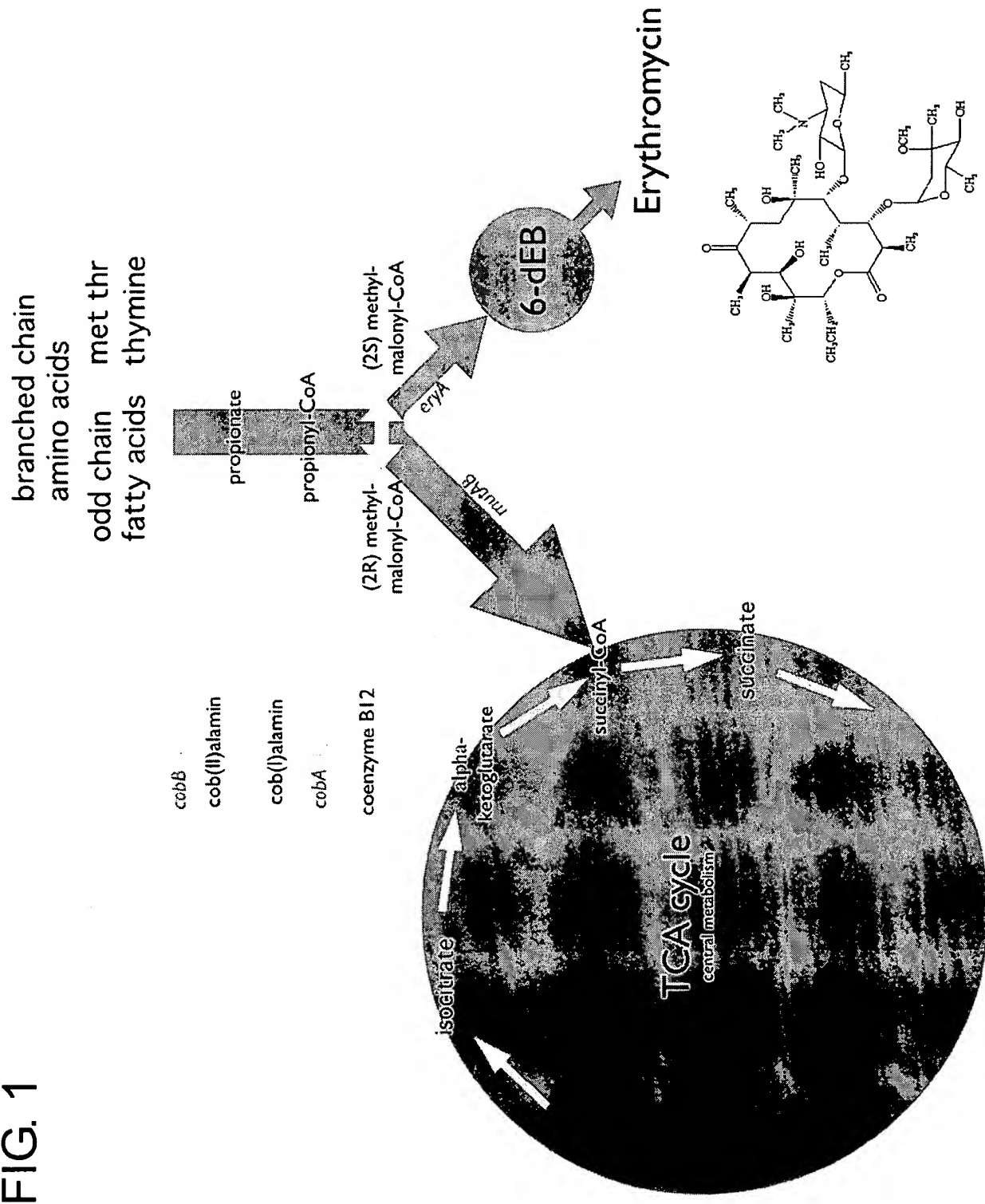FIG. 1

FIG. 2
(SEQ ID NO:1)

```
gcggtcgacg gcgccgagcc gtgggacgcc cccgagggca tcgcggtcaa gaacctctac      60

accgccgacg acctcgccga cgtcgacgcg ctcgacacct acccgggcct cgcgccgttc     120

ctgcgcggtc cctacccggc catgtacacg acccagccgt ggacgatccg ccagtacgcc     180

gggttctcga ccgccgagga gtcgaacgcg ttctaccgcc gcaacctcgc cgccggccaa     240

aagggcctct cggtcgcctt cgacctcgcg acgcaccgcg gctacgactc cgaccacccg     300

cgcgtgaagg gcgacgtcgg catggccggc gtcgcgatcg actcgatcta cgacgcccgc     360

cagctcttcg acggcatccc gctcgacgag atgagcgtct cgatgaccat gaacggcgcg     420

gtgctcccgg tgctcgcgct ctacatcgtg gcggccgagg agcagggggt gacgccggag     480

cagctctcgg ggaccatcca gaacgacatc ctcaaggagt tcatggtccg caacacctac     540

atctacccgc cggcgccgtc gatgcggatc atctccgaca tcttcgcgta cacggcggcg     600

aagatgccgc ggttcaactc catctccatc tccgggtacc acatccaaga ggccggggcg     660

acgaacgacc tcgagctcgc ctacacgctc gccgacggtg tggagtacat ccgcgccggg     720

ctcgacgtcg gcctcgacat cgacgcgttc gcgccgcggc tcagcttctt ctgggccatc     780

ggcatgaact tctacatgga gatcgcgaag atgcgcgccg cccgtgccct gwgggcccgg     840

ctcgtgcgcg acttcgaccc gaagaacccc aagagcc**TCa** gcctgcgcac gcacagccag     900

acatcgggct ggagcctcac cgcgcaggac gtgttcaaca acgtccagcg cacctgcatc     960

gaggcgatgg ccgccacgca gggccacacc cagagcctgc acacgaacgc gctcgacgag    1020

gcgatcgcgc tgccgacgga cttcagcgcg cggatcgccc gcaacacgca gctgctgctg    1080

cagcaggagt cgggcaccac cggcgtcatc gacccgtggg gcggctccta ctacgtcgag    1140

aagctgacgc acgacctcgc gaaccgcgcc tgggcgcaca tccaggaggt cgagaaggcc    1200

ggcggcatgg ccaaggccat cgaggcgggc atccccaaga tgcgcgtcga ggaggcggcc    1260

gcccgcacgc aggcacgcat cgactccggc cagcaggccg tcatcggcgt caacacctac    1320

cgcctcgccg acgaggaccc gctcgacgtg ctcaaggtcg acaacgcgtc ggtctacgcc    1380

cagcaggtgg cgaagctcga gcgactgcgc gccgagcgcg acccgcagga ggtcgagcgc    1440

gcgctcgacg ccctgacggc cagcgccgag cgtggcgcca gccgcgacgg ctcgctcgac    1500

ggcaacctgc tcgccctggc cgtcgacgcg gcccgcgcga aggcgacggt cggcgagatc    1560

tcctacgcgc tcgagaaggt ctacgggcgc caccaggccg tcatccgtac gatctccggt    1620
```

FIG. 2 cont'd

```
gtgtaccgga ccgaggcggg ccagggcggc aacgtccaga aggtcatcga cgccaccgag   1680

gcgttcgaga aggccgaggg tcgacgcccg cgcatcctcg tggccaagat gggccaggac   1740

ggccacgacc gcggccagaa ggtcatcgtc acggcgttcg ccgacatggg cttcgacgtc   1800

gacgtcggac cgctgttctc cacgcccgag gaggtcgcgc agcaggccgt ggacgccgac   1860

gtgcacatcg tcggcgtctc gagcctcgcg gcgggccacc tgacgctcct gccggagctg   1920

aagaaggcgt tggccgagct cggcggcgag gacgtcatgg tcgtcatggg tggcgtcatc   1980

ccgcccgacg acgtgccgac gctgaaggag atgggcgctg ccgaggtgtt cctgcccggc   2040

acggtcatcg ccgactccgc gctcagcctg ctcgagcggt ccgcgcgagc ctgcagcact   2100

agatggtcgg ttcgtccgag gtaa                                         2124
```

FIG. 3
(SEQ ID NO:2)

```
ctgtctctta tacacatctc aaccatcatc gatgaattcc accctgtgaa tgcgcaaacc    60

aacccttggc agaacatatc catcgcgtcc gccatctcca gcagccgcac gcggcgcatc   120

tcgggcagcg ttgggtcctg gccacgggtg cgcatgatcg tgctcctgtc gttgaggacc   180

cggctaggct ggcggggttg ccttactggt tagcagaatg aatcaccgat acgcgagcga   240

acgtgaagcg actgctgctg caaaacgtct gcgacctgag caacaacatg aatggtcttc   300

ggtttccgtg tttcgtaaag tctggaaacg cggaagtcag cgccctgcac cattatgttc   360

cggatctatg tcgggtgcgg agaaagaggt aatgaaatgg cagatccctg gcttgttgtc   420

cacaaccgtt aaaccttaaa agctttaaaa gccttatata ttcttttttt tcttataaaa   480

cttaaaacct tagaggctat ttaagttgct gatttatatt aattttattg ttcaaacatg   540

agagcttagt acgtgaaaca tgagagctta gtacgttagc catgagagct tagtacgtta   600

gccatgaggg tttagttcgt taaacatgag agcttagtac gttaaacatg agagcttagt   660

acgtgaaaca tgagagctta gtacgtacta tcaacaggtt gaactgctga tcttcggatc   720

tatgtcgggt gcggagaaag aggtaatgaa atggcatccg gatctgcatc gcaggatgct   780

gctggctacc ctgtggaaca cctacatctg tattaacgaa gcaattcgaa ttcacagagg   840

cgcttatcgg ttggccgcga gattcctgtc gatcctctcg tgcagcgcga ttccgaggga   900

aacggaaacg ttgagagact cggtctggct catcatgggg atggaaaccg aggcggaaga   960

cgcctcctcg aacaggtcgg aaggcccacc cttttcgctg ccgaacagca aggccagccg  1020

atccggattg tccccgagtt ccttcacgga aatgtcgcca tccgccttga gcgtcatcag  1080

ctgcataccg ctgtcccgaa tgaaggcgat ggcctcctcg cgaccggaga gaacgacggg  1140

aagggagaag acgtaacctc ggctggccct ttggagacgc cggtccgcga tgctggtgat  1200

gtcactgtcg accaggatga tccccgacgc tccgagcgcg agcgacgtgc gtactatcgc  1260

gccgatgttc ccgacgatct tcaccccgtc gagaacgacg acgtccccac gccggctcgc  1320

gatatcgccg aacctggccg ggcgagggac gcgggcgatg ccgaatgtct tggccttccg  1380

ctcccccttg aacaactggt tgacgatcga ggagtcgatg aggcggaccg gtatgttctg  1440

ccgcccgcac agatccagca actcagatgg aaaaggactg ctgtcgctgc cgtagacctc  1500

gatgaactcc accccggccg cgatgctgtg catgaggggc tcgacgtcct cgatcaacgt  1560

tgtctttatg ttggatcgcg acggcttggt gacatcgatg atccgctgca ccgcgggatc  1620
```

FIG. 3 cont'd

```
ggacggattt gcgatggtgt ccaactcagt catggtcgtc ctaccggctg ctgtgttcag   1680

tgacgcgatt cctgggggtgt gacaccctac gcgacgatgg cggatggctg ccctgaccgg   1740

caatcaccaa cgcaagggga agtcgtcgct ctctggcaaa gctccccgct cttccccgtc   1800

cgggacccgc gcggtcgatc cccgcatatg aagtattcgc cttgatcaga tcaggtaccc   1860

ggggatcatc ttattaatca gataaaatat ttctagattt cagtgcaatt tatctcttca   1920

aatgtagcac ctgaagtcag ccccatacga tataagttgt aattctcatg tttgacagct   1980

tatcatcgat aagctttaat gcggtagttt atcacagtta aattgctaac gcagtcaggc   2040

accgtgtatg aaatctaaca atgcgctcat cgtcatcctc ggcaccgtca ccctggatgc   2100

tgtaggcata ggcttggtta tgccggtact gccgggcctc ttgcgggata tcgtccattc   2160

cgacagcatc gccagtcact atggcgtgct gctagcgcta tatgcgttga tgcaatttct   2220

atgcgcaccc gttctcggag cactgtccga ccgctttggc cgccgcccag tcctgctcgc   2280

ttcgctactt ggagccacta tcgactacgc gatcatggcg accacacccg tcctgtggat   2340

cctctacgcc ggacgcatcg tggccggcat caccggcgcc acaggtgcgg ttgctggcgc   2400

ctatatcgcc gacatcaccg atggggaaga tcgggctcgc cacttcgggc tcatgagcgc   2460

ttgtttcggc gtgggtatgg tggcaggccc cgtggccggg ggactgttgg gcgccatctc   2520

cttgcatgca ccattccttg cggcggcggt gctcaacggc ctcaacctac tactgggctg   2580

cttcctaatg caggagtcgc ataagggaga gcgtcgaccg atgcccttga gagccttcaa   2640

cccagtcagc tccttccggt gggcgcgggg catgactatc gtcgccgcac ttatgactgt   2700

cttctttatc atgcaactcg taggacaggt gccggcagcg ctctgggtca ttttcggcga   2760

ggaccgcttt cgctggagcg cgacgatgat cggcctgtcg cttgcggtat tcggaatctt   2820

gcacgccctc gctcaagcct tcgtcactgg tcccgccacc aaacgtttcg gcgagaagca   2880

ggccattatc gccggcatgg cggccgacgc gctgggctac gtcttgctgg cgttcgcgac   2940

gcgaggctgg atggccttcc ccattatgat tcttctcgct tccggcggca tcgggatgcc   3000

cgcgttgcag gccatgctgt ccaggcaggt agatgacgac catcagggac agcttcaagg   3060

atcgctcgcg gctcttacca gcctaacttc gatcattgga ccgctgatcg tcacggcgat   3120

ttatgccgcc tcggcgagca catggaacgg gttggcatgg attgtaggcg ccgccctata   3180

ccttgtctgc ctccccgcgt tgcgtcgcgg tgcatggagc cgggccacct cgacctgaat   3240
```

```
ggaagccggc ggcacctcgc taacggattc accactccaa gaattggagc caatcaattc    3300

ttgcggagaa ctgtgaatgc gcaaaccaac ccttggcaga acatatccat cgcgtccgcc    3360

atctccagca gcgcacgcgg cgcatctcgg gcacgttggg tcctggaatt cgagctcggt    3420

accagcccga cccgagcacg cgccggcacg cctggtagat gtcggaccgg agttcgaggt    3480

acgcggcttg caggtccagg aaggggacgt ccatgcgagt gtccgttcga gtggcggctt    3540

gcgcccgatg ctagtcgccg ttgatcggcg atcgcaggtg cacgcggtcg atcttgacgg    3600

ctggcgagag gtgcgggagg atctgaccga cccggtccac acgtggcacc gcgatgctgt    3660

tgtgggctgg acaatcgtgc cggttggtag gatcctctag agtcgacgca tgcaagcttc    3720

tgcaggcatg caagcttcag ggttgagatg tgtataagag acag             3764
```

FIG. 4
(SEQ ID NO:3)

```
atgccccagg gccagccgct ggtcgtcccc gacgacggcc tcaccacccg ccagcgtcgc    60

aaccgtccgc tcgtcatggt ccacaccggg cccggcaagg ggaagtcgac cgccgcgttc   120

ggcctcgcca tgcgcgcctg gaaccagggc tggaaggtcg gcgtgttcca gttcgtgaag   180

tccgccaagt ggcgcgtcgg cgagcagagc gtgctcgagc acctgggccg cctgcacGAg   240

accgagggcc tcggcgggcc cgtcgagtgg cacaagatgg gctcgggctg gtcgtggtcg   300

cgcaagtcgg gcaccgacga cgaccacgcc gtcgccgccg ccgagggctg ggccgagatc   360

aagcgtcgcc tcgccaccga gacgcacgac ctctacgtgc tcgacgagtt cacctacccg   420

atgaagtggg gctgggtcga cgtcgacgac gtcgccgaca cgctcgcgtc gcgccccggc   480

cgccagcacg tggtgatcac cggccgcgac gccgcccccc ggctcctgga ggtcgccgac   540

ctcgtcaccg agatgacgaa ggtcaagcac cccatggacg tcggccagaa gggtcagcga   600

ggcatcgagt ggtga                                                    615
```